BEOGRAM 4004

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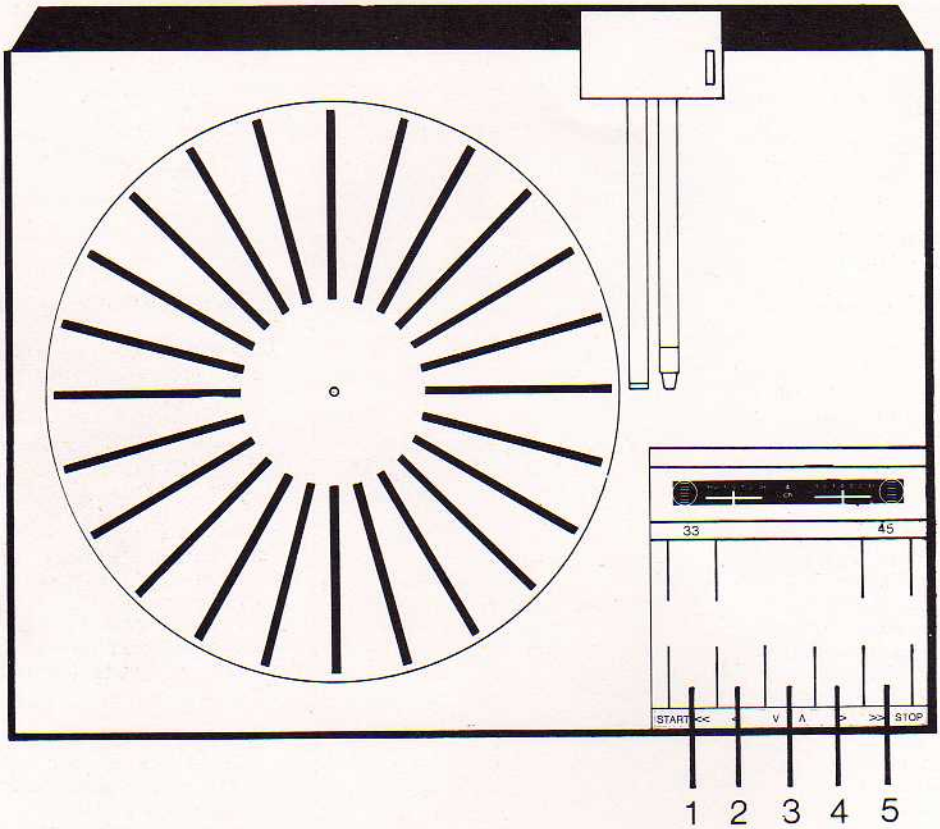
Bang & Olufsen



1 **Start and rapid inward travel**

2 **Slow inward travel**

3 **LIFT**

4 **Slow outward travel**

5 **Stop and rapid outward travel**

Stop

If you wish to stop playing before the disc has finished, press STOP. The pickup will then rise and travel sideways out, and the turntable will stop.

Pause

You can introduce a pause anywhere you want while playing a disc. A light pressure applied to LIFT-with this symbol - will lift the pickup, and the pickup will be relowered when you press a second time.

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Remote Control

In connection with a Beomaster 2400 you can have remote control of the major functions:

To start the record player: Press the P button on the remote control unit.

Pause: Press the P button again. To end the pause, once again press the P button: The tone arm will lower at the same place and continue playing.

Stop: Press an FM program or the STAND BY button on the remote control unit.

Arbitrary Lowering

If you do not wish to listen to a disc from the beginning, press START again. The pickup will now travel in across the disc until you lower the stylus into the groove by pressing LIFT (3).
This movement across the disc is relatively quick. If you prefer slower scanning, press (2) instead. Movement will occur only as long as you press the button. To lower, press LIFT (3).

Repeat

When you wish to repeat a section you have already heard, you can do it in two ways:

Rapid scanning: By pressing STOP you can cause the pickup to travel out until you lower the stylus by pressing LIFT.

Slow scanning: Keep (4) depressed until the stylus is above the desired place and thereafter press LIFT.

Speed

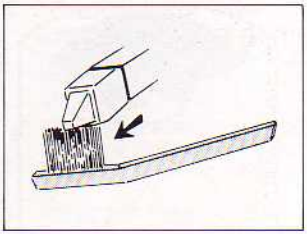
Your Beogram automatically selects the proper speed, indicated by illumination of one of the scales, 33 or 45.

In the case of the special 17 cm disc to be played at 33 r.p.m. you can select the speed yourself:

First press START, and keep 33 depressed until the stylus has been lowered into the groove.

Fine Adjustment of Register

Your Beogram 4004 has two pointers and adjustment knobs for reading and (if required) adjusting the register. The 33 and 45 r.p.m. speeds can be adjusted individually, and correct adjustment is where the pointers are at 0. Towards + or — the speed is higher or lower, respectively, than the standard speed.



Cleaning the Pickup Stylus

Dust is practically certain to collect around the diamond stylus proper.

The cleaning brush supplied with your Beogram 4004 is specially designed for cleaning the stylus, and the sketch shows how to use it. Hold the brush up against the metal housing of the pickup cartridge, behind the stylus proper, and thereafter move it forwards in the direction of the transparent section of the pickup.

CAUTION: Brushing in the opposite direction will ruin the stylus assembly, thereby rendering the pickup cartridge unserviceable.

Warning:
Be aware of chemical detergents for records and styll. They may contain solvents which damage parts of the pick-up unit.

The protective hood should only be put on the pickup during transport of the Beogram 4004, not every time you have finished using it.

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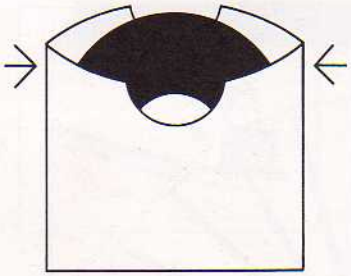


Care of discs

In designing the Beogram every effort has been made to ensure that your records can be played a large number of times with no deterioration of sound quality.

However, there is something you can do yourself; for example, you can minimize wear by avoiding dust particles and finger prints on your records.

We assume that you keep your discs in their jackets or albums. It is not immaterial how you take out a disc because the friction against the inner side of the jacket is enough to give the disc a static charge so it will attract dust.

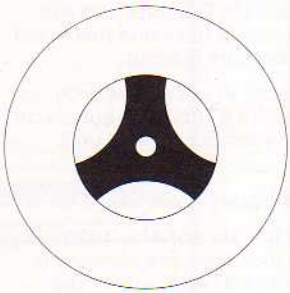
Hold the disc jacket so that its sides bend away from the disc. Put your hand in below the disc so that the middle finger touches the centre hole and the thumb grips the rim of the disc, and without touching the grooves of the disc. Pull the disc out of its jacket in such a manner that the jacket only touches the rim of the disc, not the actual surfaces.

Only hold the rim of the disc when putting it on the turntable.

Keep the dust cover of your Beogram closed while playing the disc.
Put the disc back in its jacket in the same careful manner, avoiding friction between the sides of the disc and the jacket. By doing so you help to reduce the need for antistatic wiping of your discs.
Should this become necessary, proceed as follows:

Wiping Records

Put the record on the turntable, press the 33 button and keep it depressed. The turntable will rotate without activating the pickup, enabling you to wipe the record. The motor will stop when the 33 button is released.



Discs with Large Centre Holes

To play a disc with a large centre hole, the record spindle should be fitted with the adaptor which is supplied, before putting the disc on.

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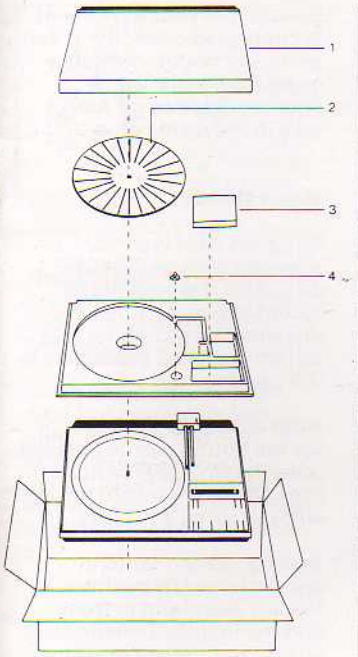


SETTING UP

Assembly after Transport

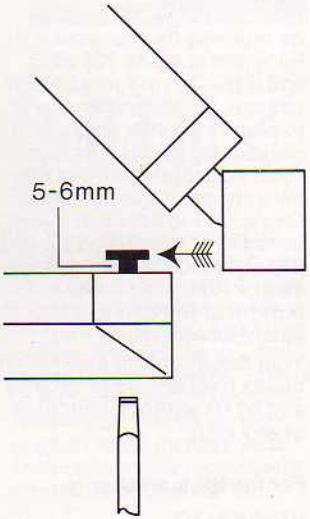
Your Beogram is protected in several ways against damage in transit.

It is important that your Beogram is correctly assembled and set up after it is unpacked.
If you wish, you may leave this to your dealer.

The following components are enclosed in the foam insert in the carton:

1 Dust cover
2 Turntable
3 Pick-up
4 Adapter

NOTE: Keep the original packing and this instrucrion for use at a later transport. Unnecessary damage may be done to the record player if it is sent without being correctly secured and packed.



Mounting the Dust Cover

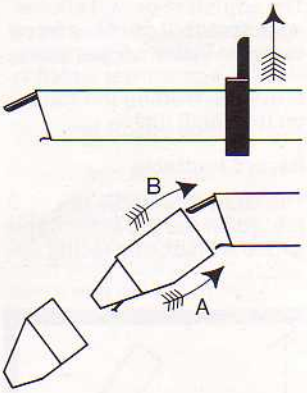
The dust cover has an aluminium panel which contains the hinge and spring system proper.
To secure this panel to the turntable unit, proceed as follows:

1 Turn two screws in the rear corners in the bottom of the turntable unit anticlockwise, pressing a finger against the surface of the lock bushing to prevent it from rotating.

2 When the screw have been loosened sufficiently to permit the bushings to get raised 5 - 6 mm, the aluminium panel of the dust cover may be brought in below the heads of the two lock bushings.

3 Retighten the screws. You may find it necessary first to close the cover and bring it into position before finally tightening the screws.

Turn three lock screws in the bottom of the turntable unit anti-clockwise against the stop (towards PLAY).



Pickup

Remove the transit protection device, inserted between the two arms.

Insert the pickup cartridge in the pickup arm.

Remove the stylus guard.

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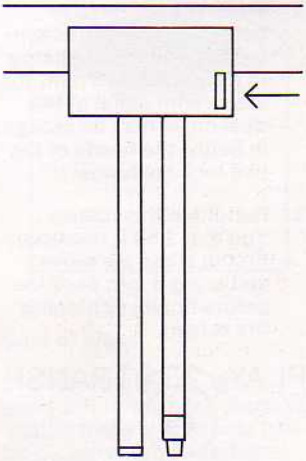


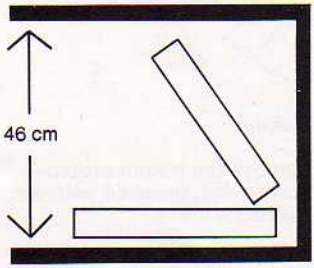
Stylus Force Adjustment

Recommended stylus force for the MMC 20 EN pick-up is 1.2 gramme.

The adjusting device allows adjustment of tracking force between 0 and 1.5 grammes. Use the screwdriver which is provided, reading the value on the small dial.

Record turntable

The record turntable is placed on the lower turntable with the black ribs facing upwards.



Space requirements

The unit should be placed horizontally on a table or shelf system. In order to allow the dust cover to be opened completely, sufficient free height should be provided above the unit corresponding to 46 cm between two shelves as shown in this sketch.

Mains

As received by you, your Beogram is set to 220 volts, and if this is your local mains voltage, all you have to do is to plug the mains lead into a wall socket. If not, the unit must be switched to the proper voltage; it has provision for switching between mains voltages of 110, 130, 220, and 240 volts AC. The changeover switch is located in the bottom of the unit and is easily turned, using a coin.

Your Beogram will operate on mains frequencies of both 50 and 60 Hz without switching of any kind.

For the UK market only.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.
This set requires a **3 Amp.** fuse in the mains plug.

Mains switch

Beogram 4004 type 5527 are provided with an ON/OFF switch on the back of the record player. During dispatch the button for this switch is placed separately in the packing.

After mounting the dust cover the button can be pressed onto the ON/OFF switch on the back of the record player without using any tools.

In daily use the switch should be in ON position, to the left seen from in front; and the indicator on the front will light. If the record player is not used for a longer period, the ON/OFF switch should be turned to OFF position.

Beogram 4004, connection to Amplifier

The cable fitted with a DIN plug should be run to the PHONO input (low impedance) of a high-fidelity stereo amplifier or stereo radio.

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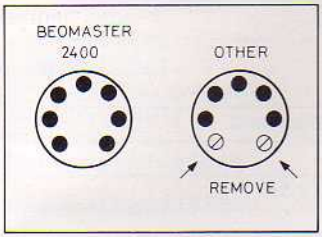
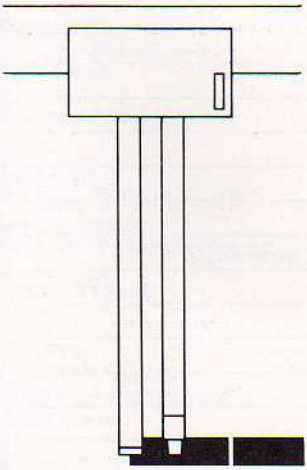


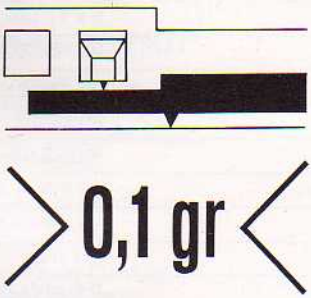
The DIN plug has seven pins to enable remote control in conjunction with the Beomaster 2400.

When using the Beogram 4004 in conjunction with other radio receivers or amplifiers, the two outermost pins must be screwed off. Turn anti-clockwise with a small screwdriver.



Checking the Stylus Force

A check on the tracking force can be performed with the balance which is provided. Place the balance on the chassis deck, to the right of the turntable, and control the pickup so that it is lowered on to the scale of the balance. To do this, first press START and quickly thereafter



(2). By alternately pressing (3), (4), (3) and (2), (3), cause the stylus to go down on that point of the balance where equilibrium exists. Read the number on the balance, and you can see whether it agrees with the reading . If the disagreement is too great, we suggest that you have your dealer adjust the pickup-arm counterbalance weight.

Replacing the Pickup Cartridge

Should it become necessary to replace the pickup cartridge because of damage to the stylus assembly or some other defect, the entire pickup cartridge should be taken off the arm and a new one inserted.

Hold the pickup firmly with one hand while carefully moving the cartridge from side to side, pulling outwards with the other. A new complete cartridge carries this designation:

MMC 20 EN

Maintenance

The external surfaces of your Beogram can normally be kept clean with a dry cloth. Any grease marks on the metal surfaces can be removed with a soft cloth moistened in a cold or lukewarm solution of detergent in water, followed by thorough wiping with a dry cloth.

Take care not damage the stylus! Put the protective hood on before wiping the metal surfaces of your Beogram.

Dust cover

Ajax Window Cleaner is recommended for cleaning the transparent dust cover.

Do not use alcohol as it may attack the material

Teak and Rosewood

If the wood surfaces seem grey and dry you may apply a thin film of teak or rosewood oil, though not more than once or twice a year.
Use a thin grade oil, especially for rosewood.

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TECHNICAL DATA	BEOGRAM 4004
Type No.	5525-5527
Pickup	MMC 20 EN
Stylus	Elliptical naked diamond
Radius of curvature	5 x 17 µm
Frequency range	20 - 20,000 Hz ± 2 dB
Channel separation 1000 Hz	> 25 dB
400 - 10,000 Hz	> 20 dB
Channel difference	< 1.5 dB
Recommended stylus pressure	12 mN / 1.2 gram
Compliance	25 µm / mN
Effective tip mass	0.4 mg
Sensitivity mV / cm / sec.	0.6 mV / 47 kohms
Output 5 cm lateral	2.12 mV / 47 kohms
Wow and flutter	< ± 0.05%
Wow and flutter, WRMS	< ± 0.025%
Rumble weighted	> 65 dB
Rumble unweighted	> 45 dB
Speeds	33 - 45 rpm.
Speed deviation	< 0.02%
Speed control range	> ± 3%
Dial for speed	2 pointers
Tonearm	Tangential
Tangential tracking	< 0.04°
Lift system	Electronic
Antiskating	Parallel tracking, error angle compensated
Stylus pressure range	0 - 1.5 gram
Motor	Servo controlled DC
Drive system	Belt
Turntable	30 cm 1.3 kg
Power supply	110 - 130 - 220 - 240 volts
Frequency	50 - 60 Hz
Power consumption	20 watts
Dimensions W x H x D	49 x 10 x 38 cm
Weight	11 kg
Subject to change without notice	

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